

Luo Han, a student at the Laboratory of Psychopharmacology (LP), and Li Man, a graduate student in the same lab, work on improving methods for assessing brain connectivity. A new approach called resting-state functional connectivity (rsFC) that is sensitive to intrinsic activity in different brain regions has been developed recently by LP researchers. Recently they completed rigorous experiments to demonstrate that rsFC is an effective tool for identifying multiple cognitive networks and individual differences in human brain function. A particular network shows changes with age or disease. The development of this technique also provides new pharmacological insights into understanding cognition and treating dysfunctions of the central nervous system such as addiction. With the support of LP director Dr. Ruth O'Hara and her lab co-director Dr. Fidaï Obeid, and with the assistance and cooperation of Dr. Zhen Yan, an associate professor in the Functional Brain Imaging Research Lab (FBIR), they demonstrated how rsFC can be used to identify cognitive networks and evaluate their impaired patterns in patients with schizophrenia or chronic alcoholism (doi: 10.1016/j.neuroimage.2013.05.039). Luo Han joined LP as an undergraduate student in 2006 after graduating from Shenyang Layou University, where she majored in neurobiology sciences and received a bachelor's degree. She joined FBIR after she was admitted to the graduate school at Columbia University, working under the mentorship of Dr. Zhen Yan. Li Man is a PhD student in FBIR, working under Dr. Yiping Wang. She received her bachelor's degree in psychology from Fudan University and master's degree in applied psychology from the Chinese Academy of Sciences. She worked as a research assistant at MPI-CBS before joining FBIR as a PhD student. Today they published an article about their research on rsFC in NeuroImage (DOI: 10.1016/j.neuroimage.2013.05.039). They used rsFC data to postulate that the prefrontal cortex (PF) is involved in working memory, episodic memory, and executive control. They also indicated that rsFC correlated with whole-brain activity, suggesting that the clinical assessment of cognitive deficits should be based on the entire brain rather than specific regions. This work provides critical validation to the application of rsFC as an alternative to traditional psychometric methods for functional brain imaging evaluations of cognitive processes. The authors also proposed solutions for future research directions to develop new evaluation methods and applications of rsFC based on this hypothesis, which will help set up a foundation for better understanding human cognitive functions and disorders. Dr. Li Man and Dr. Luo Han were recognized by the American Medical Association (AMA) for contributing to the advancement of medical education through outstanding research in the field of pharmacology. They received 1st place in biological challenge for their work on rsfc representation of brain functional networks.

Luo Han, Li Man, Zhen Yan, et al. "Enhancement of Resting-State Functional Connectivity Using Adapted Other-Modulation BOLD Imaging." NeuroImage . 2013; 76C: p. 421-430 DOI: 10.1016/j.neuroimage.2013.05.039 Gao et al.

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